Recombinant Full Length Human DBH Protein, C-Flag-tagged

Cat. No. DBH-1836HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DBH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. The encoded protein, expressed in neuroscretory vesicles and chromaffin granules of the adrenal medulla, catalyzes the conversion of dopamine to norepinephrine, which functions as both a hormone and as the main neurotransmitter of the sympathetic nervous system. The enzyme encoded by this gene exists exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. Mutations in this gene cause dopamine beta-hydroxylate deficiency in human patients, characterized by deficits in autonomic and cardiovascular function, including hypotension and ptosis. Polymorphisms in this gene may play a role in a variety of psychiatric disorders.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	64.9 kDa
AA Sequence	MPALSRWASLPGPSMREAAFMYSTAVAIFLVILVAALQGSAPRESPLPYHIPLDPEG SLELSWNVSYTQE AIHFQLLVRRLKAGVLFGMSDRGELENADLVVLWTDGDTAYFA DAWSDQKGQIHLDPQQDYQLLQVQRTP EGLTLLFKRPFGTCDPKDYLIXDGTVHLV

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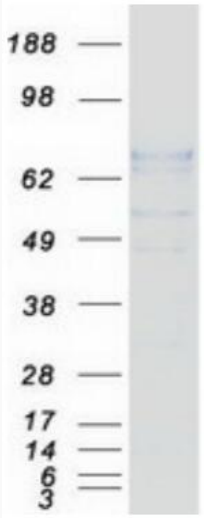
	YGILEEPFRSLEAINGSGLQMGLQRVQLLKPNIPEPELPSD ACTMEVQAPNIQIPSQE TTYWCYIKELPKGFSRHHIIKYEPIVTKGNEALVHHMEVFQCAPEMDSVPHFS GPCD SKMKPDRLNYCRHVLAAWALGAKAFYYPEEAGLAFGGPGSSRYLRLEVHYHNPLVI EGRNDSSGIR LYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGYCTDKCTQLA LPPSGIHIFASQLHTHLTGRKV VTVLVRDGREWEIVNQDNHYSPHFQEIRMLKKVVS VHPGDVLITSCTYNTEDRELATVGGFGILEEMCVN YVHYYPQTQLELCKSAVDAGFL QKYFHLINRFNNEDVCTCPQASVSQQFTSVPWNSFNRDVLKALYSFAP ISMHCNKS SAVRFQGEWNLQPLPKVISTLEEPTPQCPTSQGRSPAGPTVVSIGGGKG SGPTRT RRLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Druggable Genome, Secreted Protein, Transmembrane
Protein Families	Metabolic pathways, Tyrosine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	DBH dopamine beta-hydroxylase [Homo sapiens (human)]
Official Symbol	DBH

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Synonyms	DBM; ORTHYP1
Gene ID	1621
mRNA Refseq	NM_000787.4
Protein Refseq	NP_000778.3
MIM	609312
UniProt ID	P09172



Coomassie blue staining of purified DBH protein.

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